

**Amendments to the Claims**

1 Claim 1 (currently amended): A method of improving installation of software packages,  
2 comprising steps of:

3 obtaining, for each of one or more software components to be installable using a  
4 particular software installation package, one or more object-oriented objects that fulfill software  
5 installation interface requirements prescribed by a software installation defining an object model  
6 used as a framework for creating software installation packages including one or more topology  
7 objects, wherein the model is independent of any particular software installation package to be  
8 created [[from]] according to the model and specifies that each particular software installation  
9 package has a suite level and a component level, wherein the suite level serves as a container for  
10 one or more topology objects that describe a dynamic topology of one or more target run-time  
11 environments in which the particular software installation package may be installed and one or  
12 more components component objects to be included at the component level and each component  
13 comprises a plurality of objects and wherein each topology object identifies one or more selected  
14 ones of the software components to be installable [[and]]

15 processing a first set of object-oriented objects that describe the suite level for the  
16 particular software installation package, wherein a subset of the processed first set comprises the  
17 topology objects, thereby populating the suite level of the particular software installation package  
18 with attributes and methods pertaining to installation of the object model to describe a particular  
19 software installation package in a selected one of the target run-time environments; and one or  
20 more topologies for deployment of that particular software installation package

21 processing one or more second sets of the obtained object-oriented objects, each of the

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22 second sets describing a particular one of the software components to be installable using the  
23 particular software installation package, thereby populating the component level of the particular  
24 software installation package with attributes and methods pertaining to installation of each of the  
25 particular ones of the software components.

Claim 2 (canceled)

1 Claim 3 (currently amended): The method according to Claim [[2]] 1, wherein the instantiated  
2 object-oriented objects are JavaBeans implemented using platform-independent technology.

1 Claim 4 (currently amended): The method according to Claim [[2]] 1, wherein the model  
2 specifies that the component objects to be included at the component level of any instantiating  
3 step instantiates an object for the particular software installation package and one or more  
4 component objects for each software component included in the particular software installation  
5 package are to be created as child objects in a hierarchical tree structure that descends from a root  
6 object which is created for the suite level.

1 Claim 5 (currently amended): The method according to Claim 1, further comprising the [[steps]]  
2 step of:  
3 selecting at least one of the topologies for deployment; and  
4 using the populated object-model suite level and the populated component level to install  
5 the particular software installation package in [[using]] the selected run-time environment.

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6 topology.

1 Claim 6 (currently amended): The method according to Claim 5, wherein the step of using the  
2 populated object model suite level and the populated component level further comprises the steps  
3 of:

4 identifying one or more target machines on which the particular software installation  
5 package is to be installed;

6 downloading the particular software installation package from a server to the identified  
7 target machines; and

8 performing an installation at each of the identified target machines using the downloaded  
9 particular software installation package.

1 Claim 7 (previously presented): The method according to Claim 6, further comprising the step of  
2 authenticating, by individual ones of the identified target machines, the server prior to an  
3 operation of the downloading step.

1 Claim 8 (currently amended): The method according to Claim 1, wherein each topology object  
2 provides a recommended configuration of the particular software installation package.

1 Claim 9 (currently amended): The method according to Claim 1, wherein each topology object  
2 provides a required configuration of the particular software installation package.

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1 Claim 10 (currently amended): A system for improving installation of software packages,  
2 comprising:

3 means for obtaining, for each of one or more software components to be installable using  
4 a particular software installation package, one or more object-oriented objects that fulfill  
5 software installation interface requirements prescribed by a software installation defining an  
6 object model used as a framework for creating software installation packages including one or  
7 more topology objects, wherein the model is independent of any particular software installation  
8 package to be created [[from]] according to the model and specifies that each particular software  
9 installation package has a suite level and a component level, wherein the suite level serves as a  
10 container for one or more topology objects that describe a dynamic topology of one or more  
11 target run-time environments in which the particular software installation package may be  
12 installed and one or more components component objects to be included at the component level  
13 and each component comprises a plurality of objects and wherein each topology object identifies  
14 one or more selected ones of the software components to be installable; [[and]]

15 means for processing a first set of object-oriented objects that describe the suite level for  
16 the particular software installation package, wherein a subset of the processed first set comprises  
17 the topology objects, thereby populating the suite level of the particular software installation  
18 package with attributes and methods pertaining to installation of the object model to describe a  
19 particular software installation package in a selected one of the target run-time environments; and  
20 one or more topologies for deployment of that particular software installation package

21 means for processing one or more second sets of the obtained object-oriented objects,  
22 each of the second sets describing a particular one of the software components to be installable

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23 using the particular software installation package, thereby populating the component level of the  
24 particular software installation package with attributes and methods pertaining to installation of  
25 each of the particular ones of the software components.

1 Claim 11 (currently amended): The system according to Claim 10, further comprising:  
2 ~~means for selecting at least one of the topologies for deployment; and~~  
3 ~~means for using the populated suite level and the populated component level object~~  
4 ~~model to install the particular software installation package using the selected topology.~~

1 Claim 12 (currently amended): The system according to Claim 11, wherein the means for using  
2 the populated suite level and the populated component level ~~object model~~ further comprises:  
3 ~~means for identifying one or more target machines on which the particular software~~  
4 ~~installation package is to be installed;~~  
5 ~~means for downloading the particular software installation package from a server to the~~  
6 ~~identified target machines; and~~  
7 ~~means for performing an installation at each of the identified target machines using the~~  
8 ~~downloaded particular software installation package.~~

1 Claim 13 (currently amended): The system according to Claim 10, wherein each topology object  
2 provides a recommended configuration of the particular software installation package.

1 Claim 14 (currently amended): The system according to Claim 10, wherein each topology object

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2 provides a required configuration of the particular software installation package.

1 Claim 15 (currently amended): A computer program product for improving installation of  
2 software packages, the computer program product embodied on one or more computer-readable  
3 media and comprising:

4 computer-readable program code means for obtaining, for each of one or more software  
5 components to be installable using a particular software installation package, one or more object-  
6 oriented objects that fulfill software installation interface requirements prescribed by a software  
7 installation defining an object model used as a framework for creating software installation  
8 packages including one or more topology objects, wherein the model is independent of any  
9 particular software installation package to be created ~~[[from]]~~ according to the model and  
10 specifies that each particular software installation package has a suite level and a component  
11 level, wherein the suite level serves as a container for one or more topology objects that describe  
12 a dynamic topology of one or more target run-time environments in which the particular software  
13 installation package may be installed and one or more ~~components~~ component objects to be  
14 included at the component level ~~and each component comprises a plurality of objects and~~  
15 wherein each topology object identifies one or more selected ones of the software components to  
16 be installable; [[and]]

17 computer-readable program code means for processing a first set of object-oriented  
18 objects that describe the suite level for the particular software installation package, wherein a  
19 subset of the processed first set comprises the topology objects, thereby populating the suite level  
20 of the particular software installation package with attributes and methods pertaining to

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21 installation of the ~~object model~~ to describe a particular software installation package in a selected  
22 one of the target run-time environments; and one or more topologies for deployment of that  
23 particular software installation package

24 computer-readable program code means for processing one or more second sets of the  
25 obtained object-oriented objects, each of the second sets describing a particular one of the  
26 software components to be installable using the particular software installation package, thereby  
27 populating the component level of the particular software installation package with attributes and  
28 methods pertaining to installation of each of the particular ones of the software components.

1 Claim 16 (currently amended): The computer program product according to Claim 15, further  
2 comprising:

3 computer-readable program code means for selecting at least one of the topologies for  
4 deployment; and

5 computer-readable program code means for using the populated object model suite level  
6 and the populated component level to install the particular software installation package using  
7 the selected topology.

1 Claim 17 (currently amended): The computer program product according to Claim 16, wherein  
2 the computer-readable program code means for using the populated object model suite level and  
3 the populated component level further comprises:

4 computer-readable program code means for identifying one or more target machines on  
5 which the particular software installation package is to be installed;

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6 computer-readable program code means for downloading the particular software  
7 installation package from a server to the identified target machines; and  
8 computer-readable program code means for performing an installation at each of the  
9 identified target machines using the downloaded particular software installation package.

1 Claim 18 (currently amended): The computer program product according to Claim 15, wherein  
2 each topology object provides a recommended configuration of the particular software  
3 installation package.

1 Claim 19 (currently amended): The computer program product according to Claim 15, wherein  
2 each topology object provides a required configuration of the particular software installation  
3 package.

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